## CLAIMS

## What is claimed is:

1	1. A cell-phone retractable earpiece comprising:	
2	a phone-wire reel in a reel pocket on a cell phone that is attac	hable to
3	a cell-phone user;	
4	phone wire in phone-electrical communication with the cel	1 phone
5	proximate a reel end of the phone wire that is attached to a reel axle onto w	hich the
6	phone wire is windable;	
7	the reel axle being wind-tensioned to wind the phone wire	onto the
8	phone-wire reel in opposition to pulling the phone wire and locking the ree	l axle in
9	a selectively unwound mode;	
10	an ear hook containing an ear-hook portion of the phone wire	•
	the ear hook having an ear rest on a top of a user ear, ar	ı ear-aft
12	curvature and a hook bottom proximate a bottom of the user ear;	
12 13	an ear-size adjuster containing an adjuster portion of the phone	wire and
143	having adjustability of length of the ear-size adjuster intermediate the top of	f the ear
15	and an ear cavity of the user's ear;	
16	a sound reproducer on a bottom of the ear-size adjuster proximation	mate the
17	ear cavity;	
18	a sound conveyor in sound communication intermediate th	e sound
19	reproducer and a predetermined position in the ear cavity; and	
20	a microphone on a microphone extension in phon	e-sound
21	communication with the phone wire proximate a user's mouth.	

1	2.	The cell-phone retractable earpiece of claim I wherein:			
2		the sound reproducer includes a miniature conical horn that circles an			
3	entrance to	an inner portion of the user ear.			
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1	3.	The cell-phone retractable earpiece of claim 1 wherein:			
2		the sound reproducer includes a tubular member that is extended			
3	predetermin	nedly towards an inner portion of the user ear.			
1	4.	The cell-phone retractable earpiece of claim 1 wherein:			
2=		the ear hook includes an ear clamp having a first clamp jaw attached to			
3	the ear hoo	ok and a second clamp jaw with an ear-grasp member attached to the			
4	sound reproducer.				
	sound repre				
	5.	The cell-phone retractable earpiece of claim 4 wherein:			
2		the microphone is extended from the phone wire proximate the sound			
2 E	reproducer	to proximate the mouth of the cell-phone user.			
	reproducer	to proximate the mouth of the cen-phone user.			
1	6.	The cell-phone retractable earpiece of claim 4 wherein:			
2		the microphone is extended from the phone wire at proximate a bottom			
3	of the ear h	ook to proximate the mouth of the cell-phone user.			
1	7.	The cell-phone retractable earpiece of claim 1 wherein:			
2		the microphone is extended from the phone wire proximate the sound			
3	reproducer	to proximate the mouth of the cell-phone user.			

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the winding lock includes a phone-wire clamp.

1	14.	The cell-phone retractable earpiece of claim 12 wherein:	
2		the winding lock includes an un-locker that unlocks the winding lock	
3	with an unlock communication to the winding lock.		
1	15.	The cell-phone retractable earpiece of claim 14 wherein:	
2		the unlock communication includes a double jerk of the phone wire.	
1	16.	The cell-phone retractable earpiece of claim 14 wherein:	
2		the unlock communication includes a predetermined touching of the reel	
	pocket.		
	17.	The cell-phone retractable earpiece of claim 1 wherein:	
		the phone wire has a length of approximately three feet.	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	18.	The cell-phone retractable earpiece of claim 1 wherein:	
21 (.)		the phone wire is standard phone wire that is used commonly	
3-	intermediate	e a phone jack and a telephone handset.	
1	19.	The cell-phone retractable earpiece of claim 1 wherein:	
2		the phone wire is customized phone wire having an insulated outside	
3	perimeter that is circumferential with a diameter of approximately two millimeter		
4	and contains all standard phone-wire lines with predeterminedly thin insulation or		

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the phone-wire lines.

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- 20. The cell-phone retractable earpiece of claim 1 wherein:
- 2 the reel pocket has a thickness of approximately one-quarter inch, a
- 3 width no greater than a width of the cell phone and a length no greater than a length
- 4 of the cell phone.

**INVENTOR** 

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